PROJECT NUMBER: 2100
PROJECT TITLE: New Product Innovations
PROJECT LEADER: C. J. Campbell
PERIOD COVERED: June, 1988

## I. PROJECT HUMIDOR

A. Objective: Develop a moisture release device for use inside a cigarette pack which maintains the Pack OV at the desired level.

B. Status: An initial test using permeable rather than microporous material (Celgard) for the moisture control device has been completed. Results indicate that this film may be as effective in allowing water vapor transfer as the Celgard material is, but at only a fraction of the cost. Further tests are planned.

The patent application is now in the final stages of preparation by the patent attorney prior to filing.

C. Plans: Activities continue in an effort to develop production capability for the moisture control device. Klockner Packaging has been given samples of foil for machine setup. Reynolds Metals is now in the process of making the foil laminate. The Celgard material is on hand. Production of packets is targeted for late July. The Flavor Center will prepare the solution to be used by Klockner. Modifications to a packer to handle the M.C.D. are being done by Engineering and are expected to be complete in August.

## II. EMBOSSING CONCEPTS

A. Objective: Explore the potential advantages of embossing cigarette paper, tipping and plug wrap for both cost savings and aesthetic appeal.

B. Status: The lab embossing unit has been turned over to Engineering for their development work. A conceptual design for a replacement unit has been completed and quotations for construction are now being sought.

## III. KAYMICH MENTHOL APPLICATOR

A. Objective: Determine the effectiveness of a Kaymich direct menthol applicator as an alternative mentholation process.

B. Status: We are awaiting the receipt of the Kaymich system from England for installation and testing on a cigarette maker in the Semi-Works. A testing plan has been written.

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## IV. TOW SUPPLIER MENTHOL PROGRAMS

A. **Objective**: Coordinate research activities of tow suppliers on menthol topics of interest to Philip Morris.

B. **Status**: Celanese is preparing an exclusivity proposal for our review on the mentholation of tow prior to or during baling in order to improve menthol delivery. Experimental work by Celanese on pre-loading tow with menthol is on hold until an agreement is reached.

Eastman is proceeding independently of Philip Morris with an experiment to study the effects of ageing on menthol delivery of cigarettes. They will provide us and others with the results when they complete their study.



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